

FIG. 1

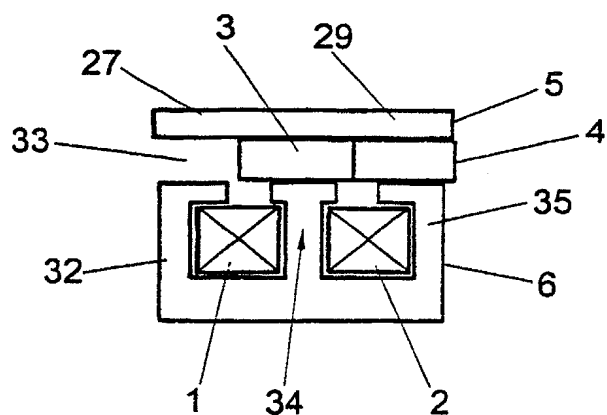


FIG. 2

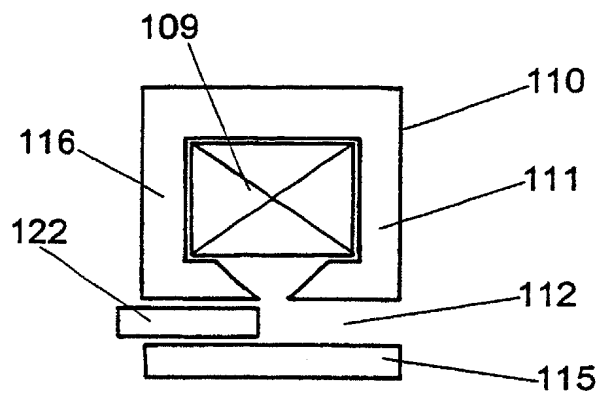


FIG. 3

FIG. 4

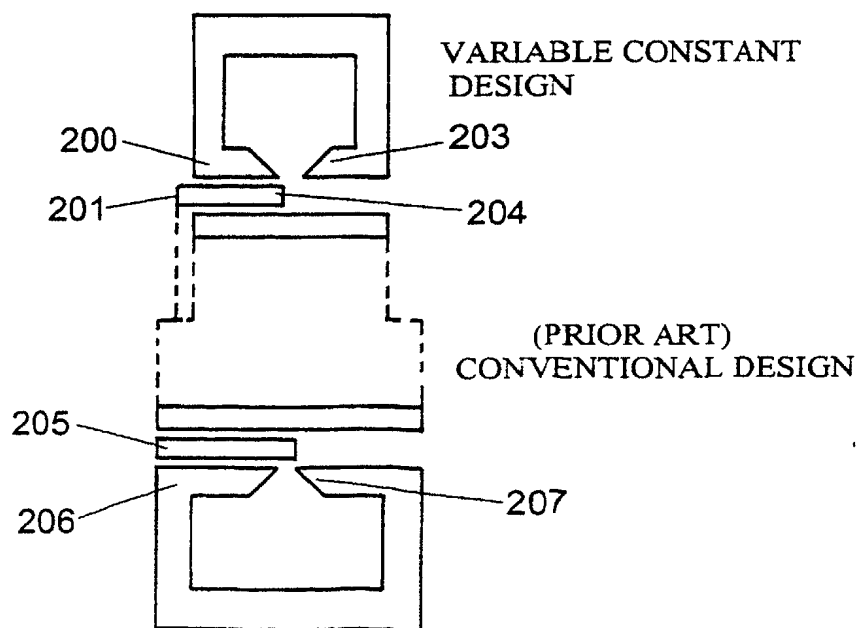


FIG. 5

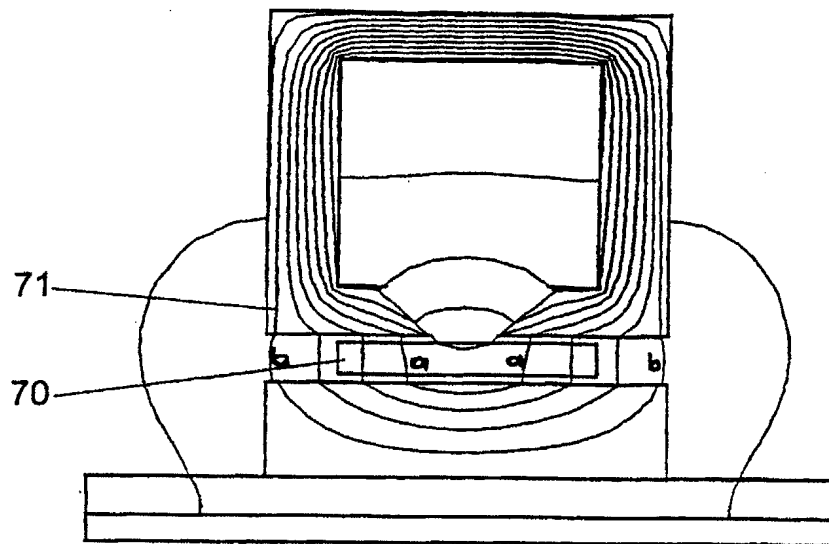
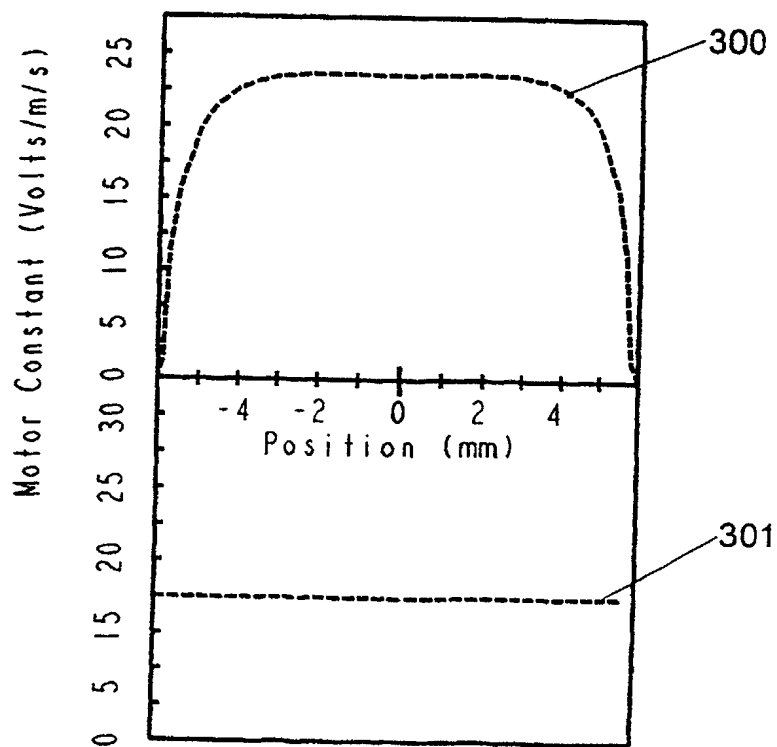


FIG. 6



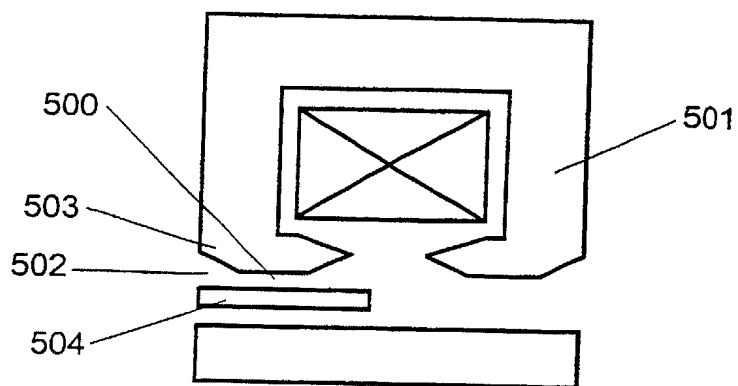


FIGURE 7

10/018323-040507

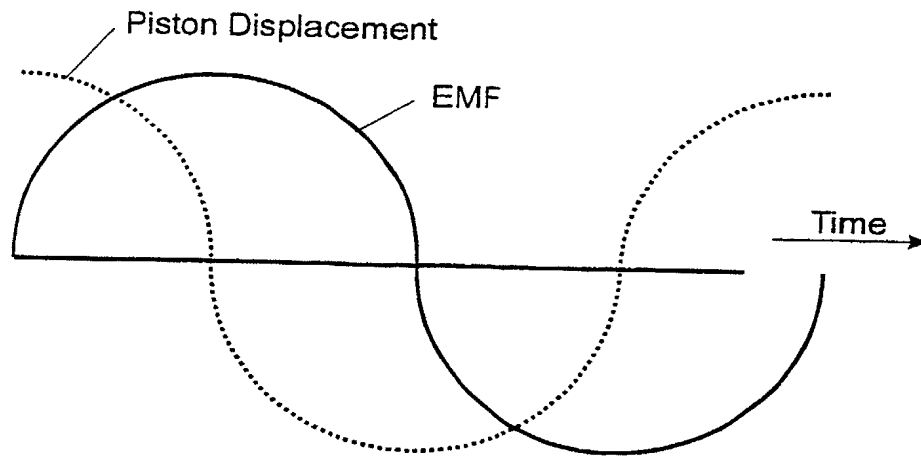


FIGURE 8a
Motor EMF and Displacement Waveforms

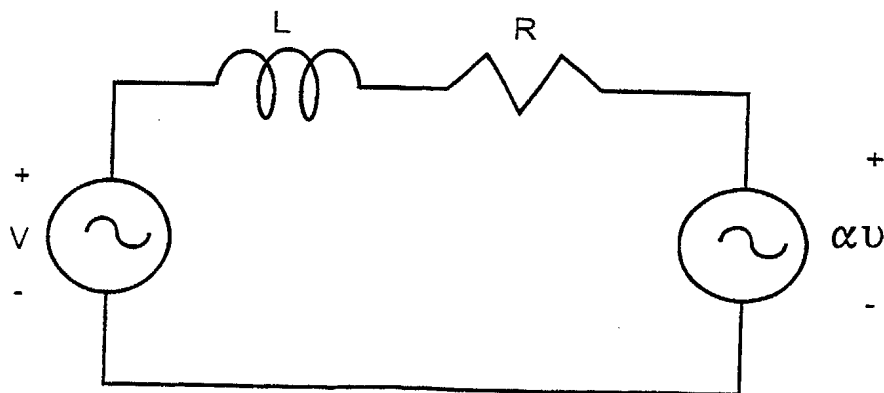


FIGURE 8b
Motor Equivalent Circuit

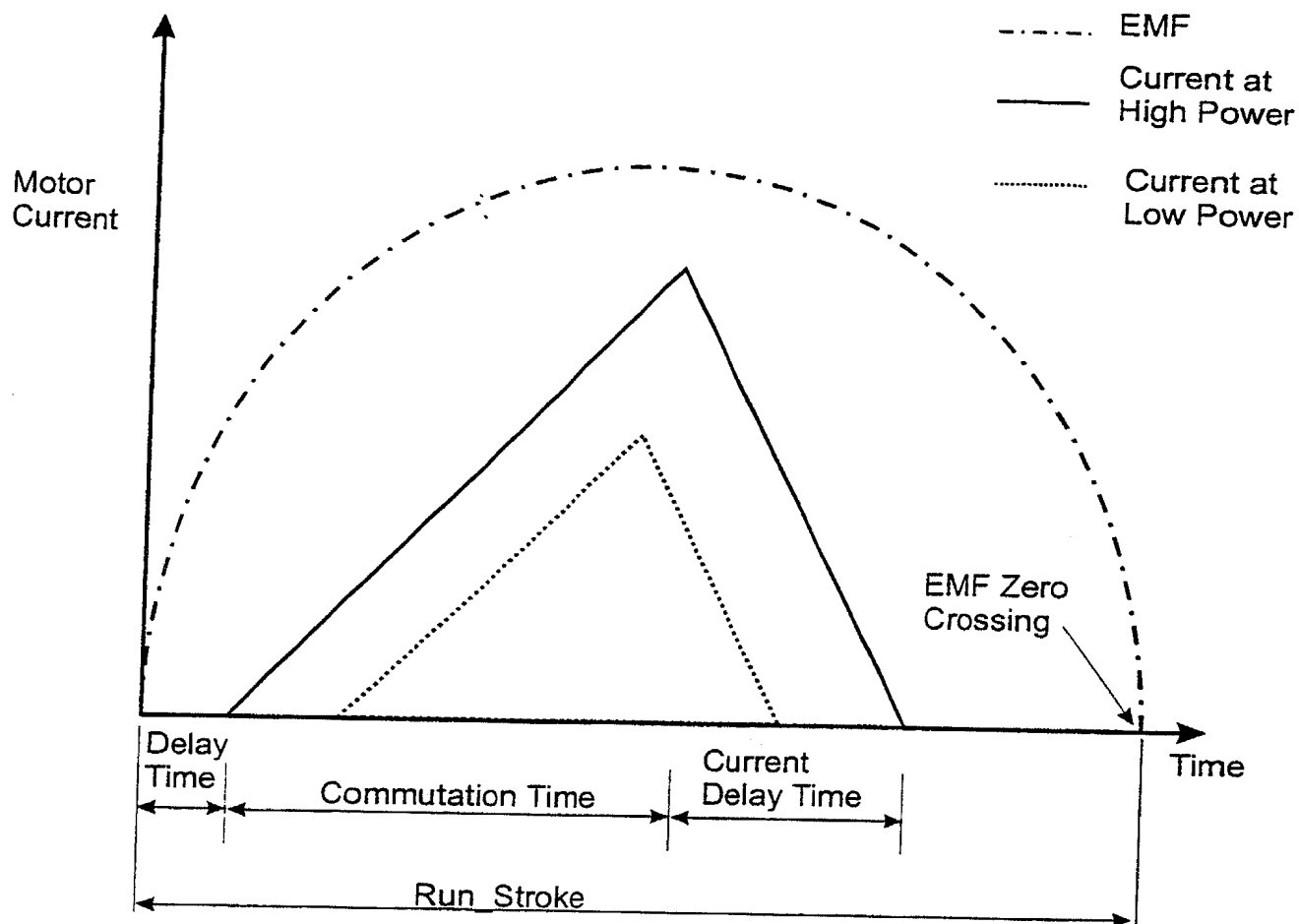


FIGURE 15
Motor Current Waveform and Timing

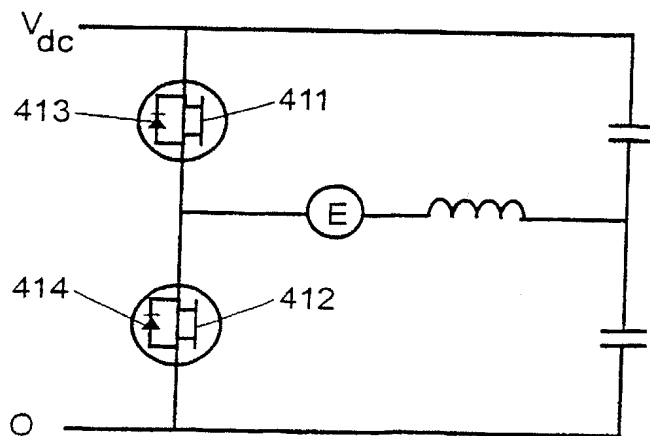


FIGURE 9

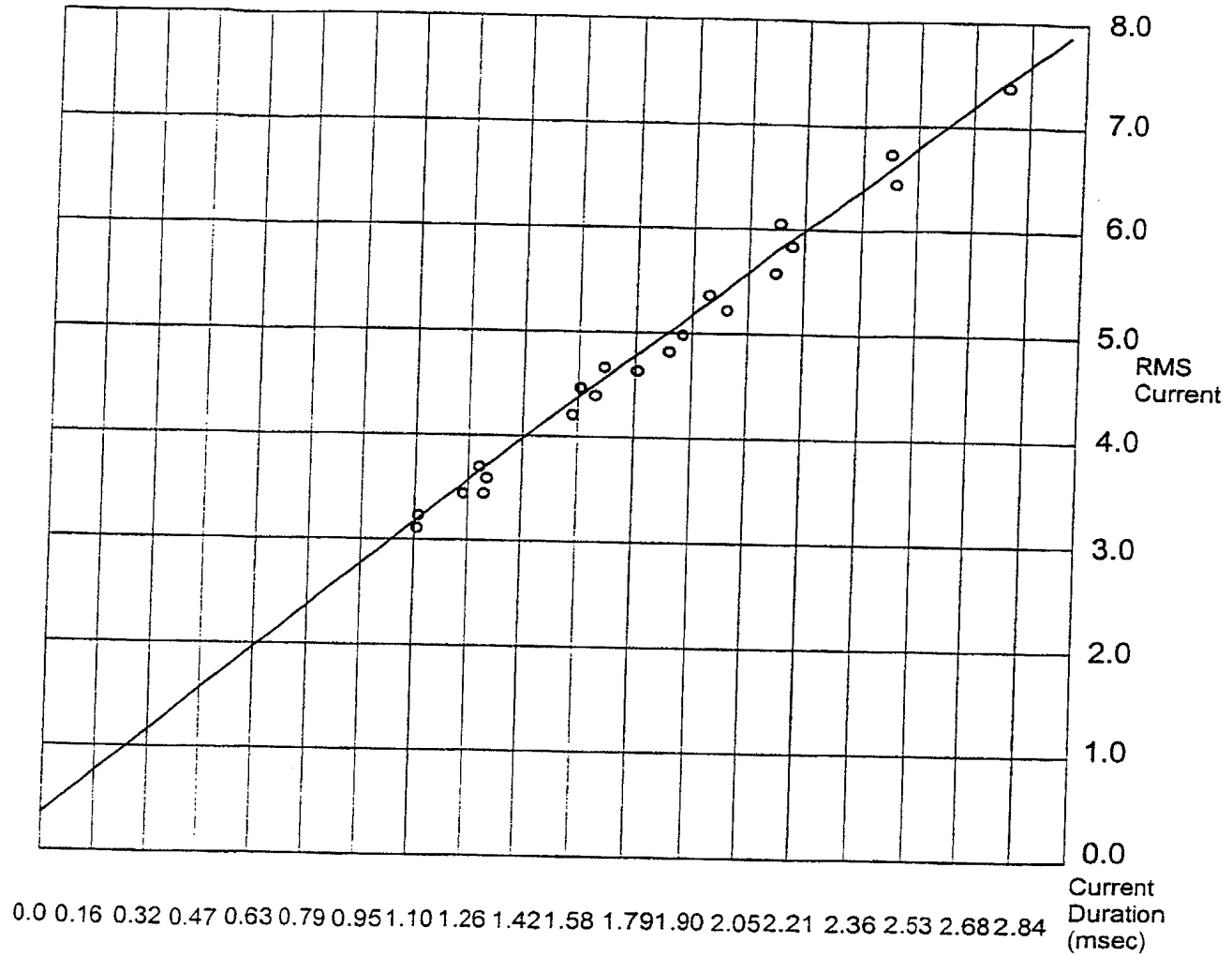
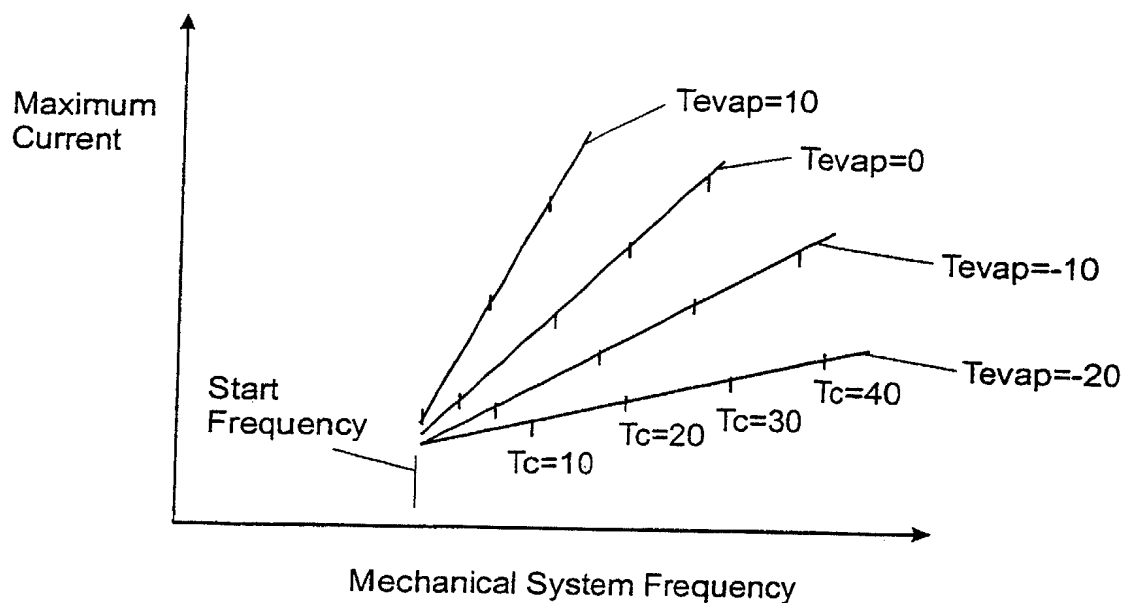
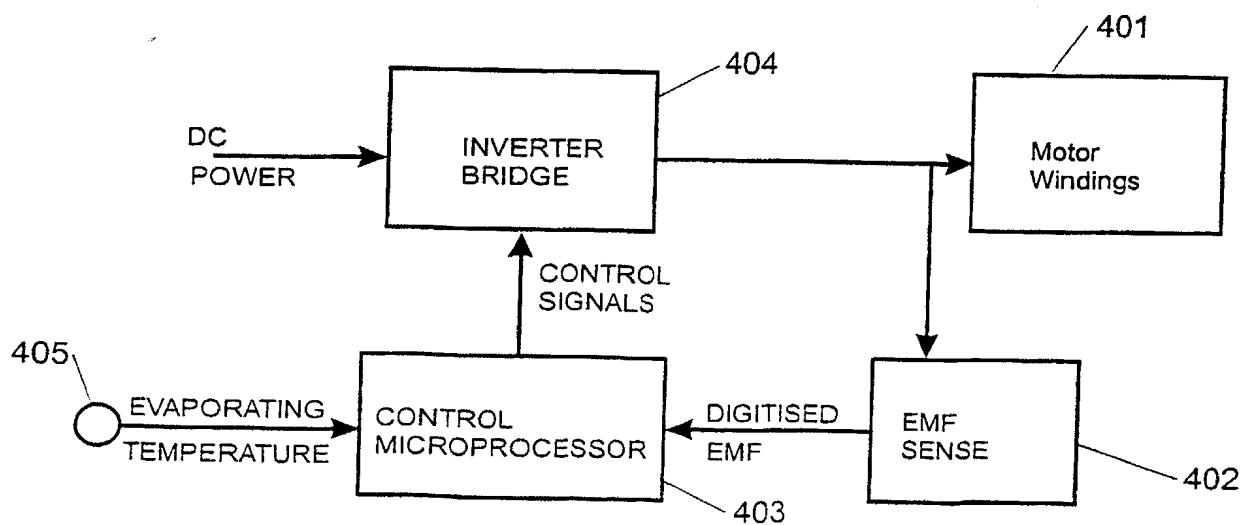


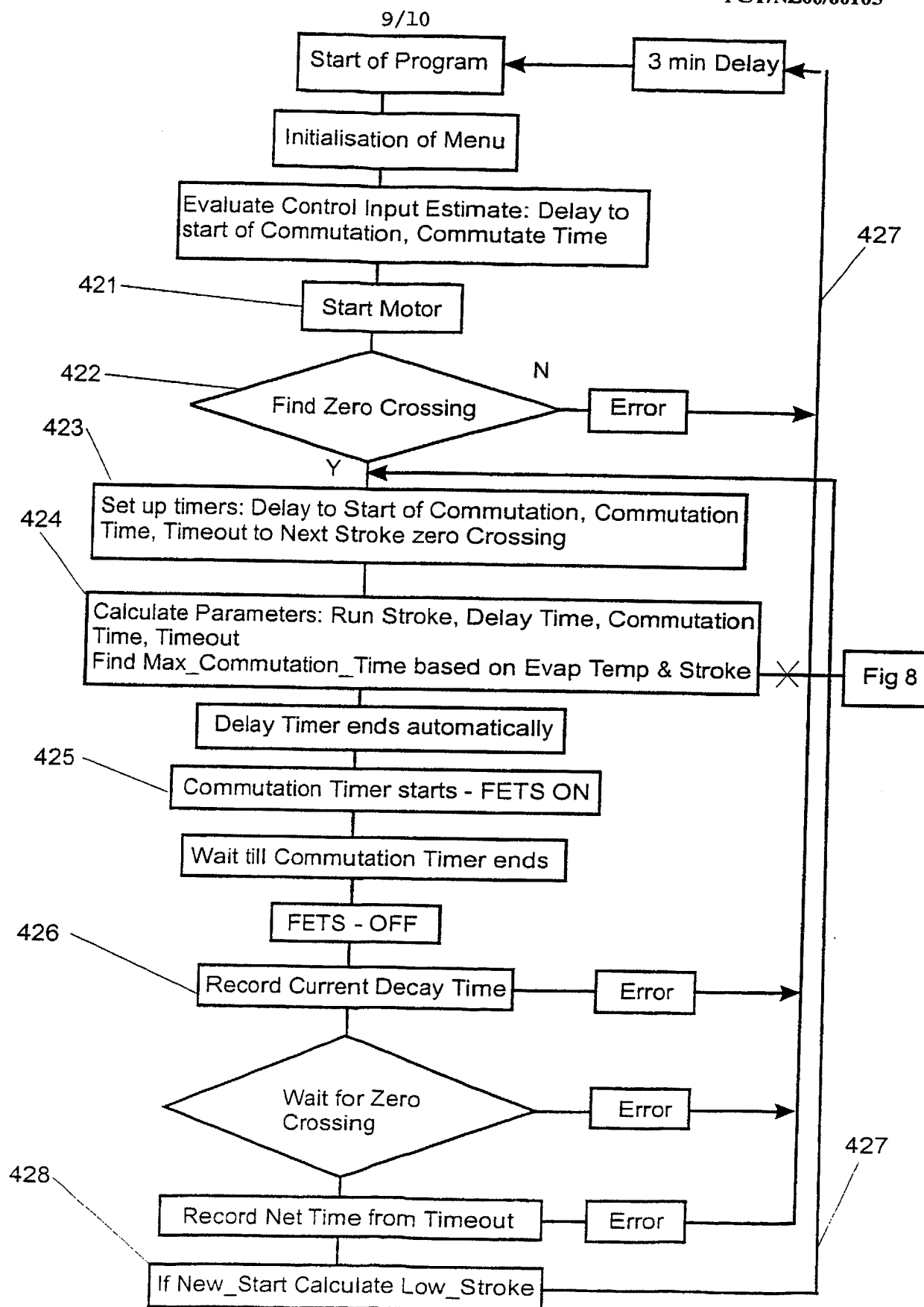
FIGURE 12

**FIGURE 10**

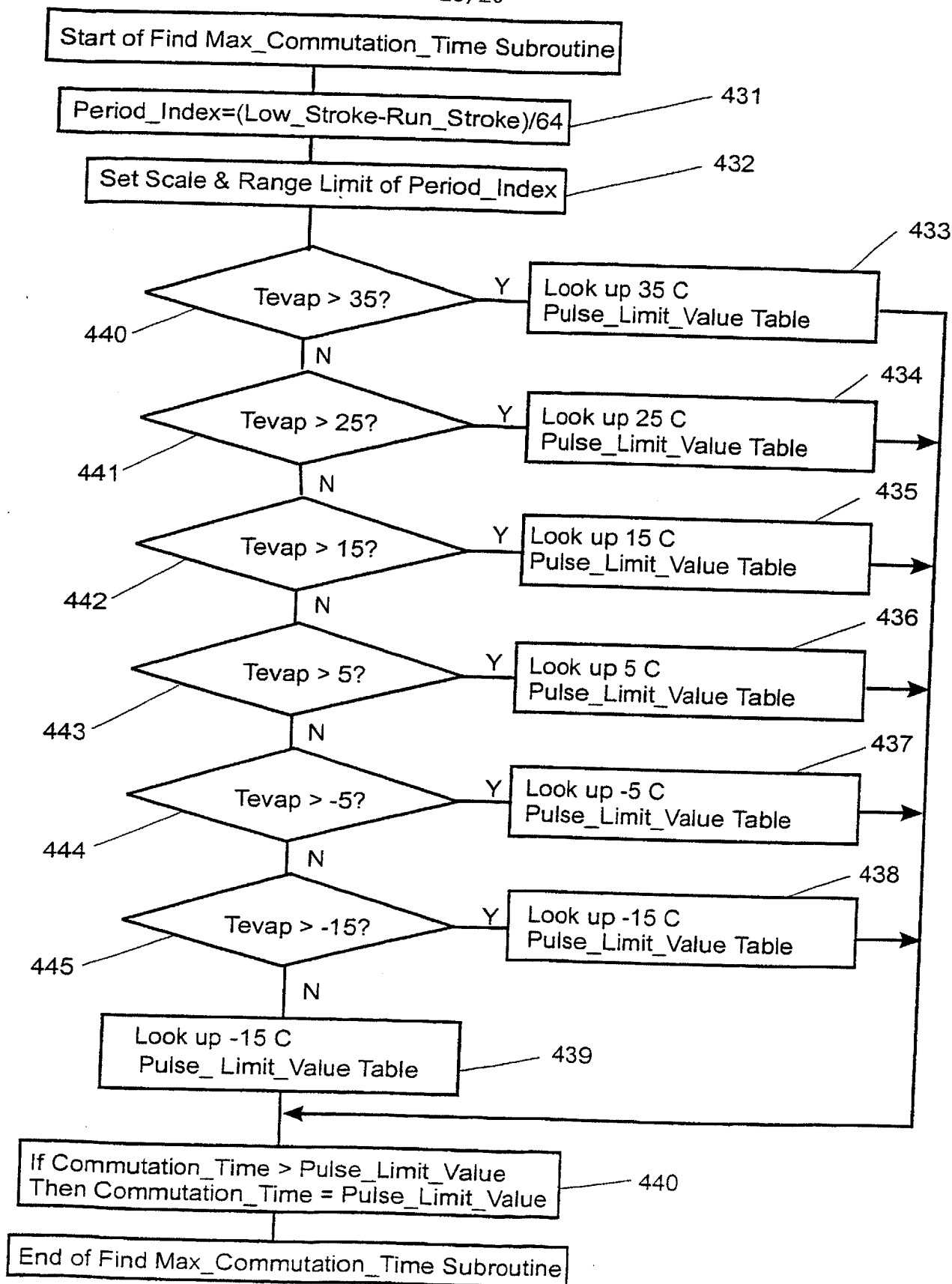
Maximum Current as a function of Evaporation Temperature and Frequency

**FIGURE 11**

Block diagram of the motor control circuit

**FIGURE 13**

Control Microcomputer Motor Control Timing Flow Chart

**FIGURE 14**

Calculation of Commutation Time Limit based on Evap Temp & Stroke Time